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CENTRAL INTELLIGENCE AGENCY

REPORT

INFORMATION REPORT

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SUPPLEMENT TO REPORT NO.

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Production Figures at SAG Stahl-und Eisenwerk Frankleben
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DEAG Imports of Metals through Barter
News from Elektrochemisches Kombinat Bitterfeld
Railway Traffic at Forst
Planned Volt Generators at VEM Transformatoren - und Roentgenwerk, Dresden
1951 Research Program at SAG Photoplanka, Agfa Filmfabrik, Wolfen
Rolling Mill Capacity at Kupfer-und Messingwerk, Hettstedt -

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Country: GERMANY (RUSSIAN ZONE)

Subject: Deutsche Reichsbahn: Locomotives of Lokkolonnen 3 & 13 laid up in RUEDNITZ and DUCHEROW (April 1951)

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Remarks: As regards the locomotives in DUCHEROW, [redacted] in which the presence of 25 locomotives of an unknown Lokkolonne in DUCHEROW was mentioned. These would appear to be identical with those of Lokkolonne 13 reported here. In this case the Lokkolonne reported [redacted] being 12 or 13 at COTTBUS is presumably Lokkolonne 12.

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2. The presence of 25 locomotives from Lokkolonne 3 at RUEDNITZ is new to us [redacted] The RAW to which one Locomotive from Lokkolonne 3 has been sent was not stated, [redacted] which Lokkolonne the remaining 3 locomotives from Lokkolonne 3 had been allocated in FRANKFURT/O[redacted]

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[redacted]

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GERMANY/RUSSIAN ZONE

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Production figures at SAG STAHL-and EISENWERK, FRANKLEBEN. (February 1951)

1. February production

The following production figures are given for steel mould castings and pigs:

a.(i) Steel mould castings

Plan figure	850 tons	454,000.-	East marks
actual "	826 "	452,000.-	" "

(ii) Pigs

Plan figure	250 "	40,000.-	" "
actual "	224 "	56,000.-	" "

b. Cast according to groups

Up to 50 kg	207.9 tons	= 26.5%
50 - 250 "	202.7 "	= 25.8%
above 250 "	375.- "	= 47.7%
	785.6 tons	= 100 %
Pigs:	218.1 "	
	1,003.7 tons.	

c. Moulded

Machine mould	211 tons
hand "	574.6 "

d. Waste

production waste	16	tons
customers' " (Kundenausschuss)	6	"

ONLY

1. February production cont.

e. Fuel needed for 1 ton

lignite	1.728	ton
coke	0.212	"

f. Weight of a casting

minimum	3	kg
maximum	7,300	"

2. New Siemens-Martin furnace

A new Siemens-Martin furnace with a capacity of 15 tons will be ready in July 1954.

3. Experiments with oxygen

Experiments have been made in FRANKLEBEN, RIESA and BRANDENBURG with the blowing of pure oxygen, not previously warmed, through the molten metal , results however being disappointing. By using pure oxygen temperatures became too high and the casings and tops of furnaces burned away.

The experiments are considered to have failed.

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Institute for Cancer Research

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1. The Russians have built an institute for cancer research since the end of the war at BUCH, near BERLIN. This Institute has an annual allocation from the Russians of 8 million marks. [and is under Russian supervision & control]

2. There are various Departments, e.g. Department for the Surgery of Cancer, Department for Research in X-ray Treatment of Cancer, etc.

3. Preference is given to students who are politically acceptable and among those to students of proletarian origin. For the time being the Russians accept the really able and experienced senior research workers irrespective of political background, but the Nachwuchs is carefully selected.

4. There is a Russian Aufsicht and the Institute is well under their control. The German professors employed salve their consciences by saying that they receive in pay three times as much as doctors in the Western Zones, who are very ill paid at present.

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GERMANY (SOVIET ZONE)

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METALS IMPORTED UNDER BARTER ARRANGEMENTS BY DEAG.
(1 Nov.1950 - 31 March 1951)

1. The total imports of metals and metal products by DEAG over the period 1st November 1950 to 31st March 1951 (barter imports only) were as follows:-

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Item	Volume (tons)		Price per ton (Dollars)	Total Value (Dollars)
	Nov/Dec.'50	1st Qtr.'51		
Boiler Tubes	21.303	11.485	180	6501.84
Gas Pipes.	4.388	-	180	789.84
Lead.	187.824	780.640	404	391,252.01
Copper.	717.756	100.146	569	465,386.24
Sulphurised Copper.	0.300	-	850	255.0
Zinc.	93.000	-	442.5	41,152.50
Tin.	60.000	-	3314.22	199,000.00
Cast-iron Scraps.	29,634	14.630	650	11,471.60
			Total	1,132,509.03

2. The following items were exported in exchange over the same period. (November 1950 - 31 March 1951):-

	Volume (tons)	Volume (dollars)
Potash	10,000.00	160,000.00
Potash	10,000.00	200,000.00
Ammonium Sulphate	6,174.00	259,308.00
Sugar	4,000.00	500,000.00
	Total	1,119,308.00

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(April 1951) GERMANY (RUSSIAN ZONE) 50X1-HUM

SCIENTIFIC [redacted]

News from the Elektrochemisches Kombinat, BITTERFELD. 50X1-HUM

1. Russian Personalities

(a) KONONOV arrived in January 1951 to take charge of the Research Department of the factory. [redacted] 50X1-HUM

(b) BELIKOV arrived at about the same time, and acts as assistant to KONONOV. [redacted] 50X1-HUM

2. Hydrazine

KONONOV consulted Dr. FULDNER on about 6 April [redacted] 50X1-HUM

3. Clay - alumina plant

(a) Dr. GEIDEL has been transferred from the aluminium electrolysis and aluminium chloride plants to the Central Research Laboratory to work on the clay-alumina project.

(b) Dr. HOLST is also to join the Central Research Laboratory to work on this project. He is at present lecturer in inorganic chemistry in ROSTOCK University.

4. Freon and manufacture of refrigerators

(a) To the surprise of the German research staff the plan for the production of Freon in 1951 has not been approved by SAG Headquarters in BERLIN-Weissensee. Dr. BAUER, German Head of Research in the factory, is still in correspondence with WEISSENSEE about this question.

(b) The experimental Freon plant is still operating unsatisfactorily. It produces about ½ kg of mixed Freons per diem, but there are frequent stoppages, apparently due to impure reagents, and no satisfactory method of separating the various Freons in the mixture has yet been developed.

(c) It is persistently rumoured that the refrigerator factory, Kaelte-RICHTER, BERLIN, will be nationalised soon. The recent explosion there will probably be given as a reason.

(d) Dr. MUELLER is successfully operating in RADEBEUL a small plant for the production of Freon by a discontinuous process. 50X1-HUM

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"G"

Date of Information 15 - 29 March 1951

Country : GERMANY (RUSSIAN ZONE)

Subject : Details of Trains entering and leaving FORST (15th - 29th March 1951)

THIS IS A [redacted]
DO NOT [redacted]

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Remarks : 1. Ref. para. 3: MOSCOW is probably an error for MUSCAU.

2. Ref. paras. 8 and 10: [redacted] that these buoys or mines were destined for the munition works at SCHEUNO near TEUPLITZ.

[redacted]

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GERMANY (RUSSIAN ZONE)

ECONOMIC.

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DETAILS OF TRAINS ENTERING AND LEAVING FORST.
(15-29 March '51

15th March.

1. Two goods trains from DOEBERN to BERLIN composed of 56 and 59 trucks respectively, carrying briquettes. 50X1-HUM

1 goods train to SCHEUNO Explosives Plant, carrying briquettes.

1 goods train of 42 open trucks with anthracite from LIEGNITZ to COTTBUS.

1 goods train from RIESA to COTTBUS via BRESLAU with 39 trucks of scrap.

1 train of 42 open goods trucks from COTTBUS to BRESLAU with scrap. In FORST 14 empty waggons were collected for delivery at TEUPLITZ.

1 anthracite train from WALDENBURG to BERLIN (38 trucks).

16th March.

2. 2 trains from WALDENBURG to COTTBUS: one of 44 trucks with anthracite, the other with 24 open trucks carrying cases of manufactured goods accompanied by a Russian O.R. from an armoured unit, and 2 cistern waggons containing Diesel fuel.

1 goods train from SORAU to UEBIGAU/FALKENBERG with 14 empty trucks and 8 carrying cases of manufactured goods, accompanied by 2 Russian O.R.'s from an armoured unit.

2 trains from COTTBUS to SCHEUNO and OPPELN respectively. The first was composed of 43 empty open trucks. The second had 14 open trucks with scrap and 15 empty waggons to be loaded at TEUPLITZ.

17th March.

3. 2 goods trains from WALDENBURG containing anthracite (47 trucks and 46 trucks respectively).

1 train of 18 cistern waggons with motor spirit from BRESLAU to SCHOENFELD.

1 train of 14 cistern waggons with Diesel spirit and 12 sealed trucks from LIEGNITZ to COTTBUS. Polish personnel accompanied the train as far as FORST.

1 scrap goods train from RIESA to BRESLAU.

1 passenger train from FORST to TEUPLITZ carrying 28 Polish railway personnel.

1 goods train from BRESLAU to BERLIN composed of 34 open trucks with anthracite and 11 cistern waggons with Diesel fuel which remained in COTTBUS.

1 passenger train carrying 34 Volkspolizei from FORST to MOSCOW (?).

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18th March.

4. 1 goods train of 28 closed trucks from SAGAN to BRANDENBURG. Contents unknown.

2 anthracite trains from BRESLAU: one to BERLIN (42 trucks), the other to LUEBBEN (40 trucks).

2 Briquette trains from SENFTENBERG/COTTBUS to SORAU (48 trucks) and TEUPLITZ (44 trucks) respectively.

1 goods train from COTTBUS to SORAU with 14 open trucks containing wheel-barrows, and 12 empty cistern waggons.

1 closed military train carrying troops from SORAU to WEISSWASSER.

1 goods train of 32 trucks carrying wood and scrap from TORGAU to BRESLAU.

19th March.

5. 1 closed military train carrying O.R.'s from GIEWITZ.to WEISWASSER.

3 trains from BEUTHEN: 2 to BERLIN with anthracite (44 and 41 trucks respectively) and 1 to COTTBUS composed of 38 trucks with anthracite and 2 cistern waggons with Diesel fuel.

1 empty goods train of 68 open trucks from COTTBUS to NEW POLAND.

1 goods train of 28 open trucks carrying aluminium scrap from DESSAU/COTTBUS to BRESLAU.

20th March.

6. 1 goods train of 42 trucks with anthracite from KATTOWITZ to COTTBUS.

1 train from BRESLAU to SCHOENEFELD composed of 28 cistern waggons containing motor spirit and 18 closed trucks containing cases.

1 train of 26 trucks with coal from LIEGNITZ to BERLIN.

1 empty goods train of 31 closed trucks from COTTBUS to SAGAN.

1 goods train from BERLIN to BRESLAU with 28 trucks carrying scrap (bridge parts).

1 passenger train of 8 coaches carrying Polish railway personnel from TEUPLITZ to FORST (crews for trains travelling to the East).

21st March.

2 trains from BEUTHEN to BRANDENBURG composed of 48 and 42 special trucks respectively carrying coal dust.

1 anthracite train of 46 open trucks from WALDENBURG to BERLIN.

1 military passenger train from SAGAN to FORST.

1 goods train of 28 open trucks with scrap from BERLIN to NEW POLAND (SAGAN?)

1 goods train of 31 open trucks with prefabricated barracks (sic), 4 aircraft wings and 1 fuselage

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22nd March.

8. 1 military passenger train from SAGAN to FORST/COTTBUS. 50X1-HUM

2 trains from WALDENBURG with anthracite to DESSAU (42 trucks) and COTTBUS (46 trucks).

1 open goods train of 38 open trucks with scrap from WUSTERHAUSEN to SAGAN.

1 train of 30 open goods trucks with wood and 12 with buoys or mines from BERLIN to TEUPLITZ.

1 goods train of 14 trucks from BERLIN to SAGAN with cases of electric bulbs (Polish train personnel).

1 anthracite train of 42 trucks from BEUTHEN to POTSDAM.

1 military passenger train of six carriages from SORAU to WEISWASSER.

1 goods train of 41 trucks with anthracite from KATTOWITZ to COTTBUS.

23rd March.

9. 1 anthracite train of 44 trucks from WALDENBURG to COTTBUS/GOERLITZ.

2 trains from BERLIN to SORAU (36 empty) and to SAGAN (38 open trucks with scrap machinery) respectively. 50X1-HUM

26th March.

10. 3 anthracite trains from WALDENBURG as follows: 2 to COTTBUS (49 and 38 trucks), and 1 to BRANDENBURG (29 trucks).

1 goods train of 42 trucks containing pit props from LUEBBEN to BRESLAU.

1 goods train from BERLIN to TEUPLITZ of 14 open trucks with mines or buoys, and 22 empty trucks.

27th March.

11. 2 anthracite trains from BEUTHEN: 1 to BERLIN (44 trucks), the other with 44 trucks for BERLIN, and 2 cistern waggons for COTTBUS.

1 goods train of 38 trucks with wood from BERLIN to SAGAN.

1 goods train of 40 trucks with wood from LUEBBEN to BRESLAU.

1 passenger train of 8 coaches carrying Grenzpolizei from COTTBUS to TEUPLITZ.

1 goods train from BRESLAU to COTTBUS composed of 10 open trucks with cases carrying air equipment and 8 cistern waggons with motor spirit.

1 goods train of 41 trucks with wood from LUEBBEN to WARSAW.

1 scrap goods train of 38 trucks from BERLIN to SAGAN.

28th March.

12. 2 anthracite trains from WALDENBURG: 1 of 42 trucks for LUEBBEN, the other of 38 trucks for COTTBUS.

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28th March (continued)

1 goods train of 46 trucks with pit props from COTTBUS to BRESLAU.

1 goods train of 28 trucks (open), from BERLIN to SAGAN carrying oxygen cylinders (approx. 100) and accumulators (approx. 1 metre long) mounted on 2 rubber tyred wheels. 50X1-HUM

1 goods train from SCHOENEFELD to SORAU composed of 14 open trucks and 20 cistern waggons, all empty.

1 anthracite train of 48 trucks from KATTOWITZ to BERLIN.

29th March.

13. 1 goods train of 40 trucks carrying pit-props from BERLIN to SORAU.

3 anthracite trains as follows:-

1 from BEUTHEN to BERLIN (46 trucks).
1 from WALDENBURG to COTTBUS (38 trucks).
1 from WALDENBURG to BERLIN (42 trucks).

1 goods train of 28 closed trucks from BERLIN to BRESLAU carrying cases and lamps from the Berlin Electric Bulb works.

1 train of 26 cistern waggons containing Diesel fuel from Breslau to COTTBUS.

2 trains to TEUPLITZ: 1 from BERLIN composed of 34 closed trucks with cement and 18 open trucks containing iron girders; the other from LUEBBEN carrying 18 Grenzpolizei and 10 Polish railway personnel.

1 goods train from SAGAN to BRANDENBURG composed of 18 open goods trucks with iron masts and 22 closed trucks containing cases.

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SCIENTIFIC

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Planned manufacture of two seven million volt generators VEM Transformatoren- und Roentgenwerk, DRESDEN

1. A large hall is being built in the grounds of the VEM Transformatoren- und Roentgenwerk, DRESDEN (formerly Koch & Stertzel). This should be finished by the end of the year 1951. It is planned to assemble in this hall during the years 1952-3 two seven million volt, 45 mA, generators.

2. Each generator will be 54 metres high. The hall of the NIEDERWARTHA Power Station used for the assembly of the three million volt generator in 1948-9 is not tall enough for the assembly of the seven million volt generators, and this hall will be de-requisitioned at the end of 1951.

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Para 1. 27 March 1951
Para 2 2 April 1951

GERMANY (RUSSIAN ZONE)
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SCIENTIFIC/ECONOMIC

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SAG Photoplenka, Agfa Filmfabrik, WOLFEN:
1951 Research Programme.

1. The revised Research Programme for 1951 is as follows:-

(a) Photographic Section - 1,612,000 DM (East) allocated.

(i) The following projects are described on the official list as being "very important":-

Project 1 w	Gelatine-Ersatz nichttierischer Herkunft	DM	60,000
2 w	Tonspur	"	80,000
3 w	Übersensibilisierung	"	60,000
4 w	Komponenten	"	90,000
5 w	Sensibilisierungs-Farbstoffe	"	90,000
6 w	Lichthof-Farbstoffe	"	24,000
7 w	Stabilisatoren und Hemmkörper	"	60,000
8 w	Netzmittel	"	48,000
		DM	512,000

(ii) Other projects:-

Project 1	Theorien des latenten Bildes	DM	36,000
2	DP-Verfahren schwarz/weiss u. Agfa-Color	"	150,000
3	Neue photografische Verfahren	"	48,000
4	Gelatine-Veredlung	"	36,000
5	Positiv-Negativ-und Tonfilmemulsionen	"	100,000
6	Mess-und Prüfgeräte	"	60,000
7	Begiesserei-Probleme	"	120,000

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(ii) Other projects (continued):-

Project 8	Magnetische Pulver und Magnetonfilm	DM	90,000
9	Polyamidfolien	"	150,000
23	Agfa-Colorverfahren einschl. Papier	"	200,000
24	Maskenverfahren	"	110,000
		DM	1,100,000

(b) Artificial Silk Section - 1,290,000 DM (East) allocated.

(i) The following projects are described on the official list as being "very important":-

Project 9 w	Vervollkommnung der Textilien Nachbehandlung von Perlonseide	DM	70,000
10 w	Ausarbeitung eines kontinuierlichen Polymerisations-(Kondensations) Verfahrens unter Druck	"	80,000
11 w	Prüfung neuer Rohstoffe auf ihre Eignung und Verarbeitungs-fähigkeit für vollsynthetische Fasern	"	50,000
12 w	Untersuchung von Direkt-Viskoseverfahren	"	100,000
		DM	300,000

(ii) Other projects:-

Project 9a	Vervollkommnung der Kontinuierlichen Polymerisation für Perlon	DM	200,000
9b	Gewinung einer neuen synthetischen Faser auf Basis Polyacrylnitril	"	200,000
10	Bestimmung des Polymerisations-grades von Perlon Fraktionierung	"	40,000
11	Systematische Verstreckstudien an Perlon	"	40,000
12	Wärmebeständigkeit von Perlon-Polymerisation	"	70,000
13	Erwerb u. Inbetriebnahme einer Kontinue-Spinnmaschine	"	250,000

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(ii) Other projects (continued):-

Project 14	Gewinnung von Pressmassen aus Abfällen der Zellstoff-Produktion	DM	40,000
15	Entwicklung eines techn. Verfahrens für Acetylierung von Cellulose mittels Keton	"	150,000
		DM	990,000

(c) Russian Ministry - 380,000 DM (East) allocated.

The following projects are being worked on on behalf of the relevant Russian Ministry:-

Project 1 m	Vervollkommnung des Kontinuierlichen Polymerisations- und Spinnverfahrens für Perlonseide	DM	100,000
3 m	Ausarbeitung von Bedingungen zur Technologie des Produktionsprozesses von Fichtenzellstoff mit hoher Reaktionsfähigkeit zur Herstellung qualitativer Viskose-Cordseide.	"	200,000
4 m	Herstellung von Dreifarben-Mehrschicht-negativfilm für Flammenaufnahmen	"	30,000
5 m	Herstellung von dünnem Perfol	"	50,000
		DM	380,000

2. The factory is manufacturing three film manufacturing machines (Giessmaschinen) for export to the USSR. They are to be sent to KAZAN, where the third most important film factory in the USSR is believed to be situated. The most important is believed to be at SHOSTKA.

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GERMANY (RUSSIAN ZONE)

ECONOMIC. ONLY

To:

The Deputy Prime Minister, & Chairman of the State Planning Commission, Herr. RAU. 6.4.51.

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Plan alterations for a number of Items concerning the Iron and Ore Mining (within the framework of the approved VOLKSWIRTSCHAFTSPLAN 1951.)

The non-arrival of foundry pig-iron imports has made it necessary to raise the planned amount of foundry pig-iron by 75,000 tons. The following alterations are required (amounts in 1,000 tons):-

Description.	Gross Production Figures according to Economic Plan.	New Proposals.	Remarks.
Crude Iron.	375	375	The total figure remains unaltered. Corrections are necessary only in relation to the following:-
THOMAS crude iron.	290	215	
Foundry pig-iron.	30	105	
Open hearth pig-iron	25	25	
Specular iron.	30	30	

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In consideration of the fact that the production of a ton of foundry pig-iron corresponds to that of 1.5 tons of Thomas crude iron, the above figures are too high unless the following indices noted in the authorised Economic Plan are correspondingly altered:

Description	Figures according to the Economic Plan.	Present Proposal	Remarks.
Consumption of ores and additions per ton.	1.5 tons.	1.1 tons	
Crude iron(in relation to effective weight of crude iron) without taking into account the use of limestone containing iron. (Limestone from the GROSS KAMSDORF mine).			
Scrap consumption per ton crude iron. (In relation to the effective weight of crude iron).	0.5 tons.	0.65 tons.	

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Description.	Gross Production Figures according to Economic Plan.	New Proposals.	Remarks.
Crude steel ingots.	1384	1316	The reduction results from the deficit of Thomas crude iron & from the under-mentioned transfer of an electric furnace.
Thomas Steel	250	185	See above.
SM-steel	1074	1074	
Electro-Steel	60	57	The transfer of an electric furnace from VEB MAXHUETTE to VEB HENNIGSDORF is justified by the fact that, as a result of the already negligible production of Thomas steel in 1951, the general re-building of (AUSBAU) the Thomas steel-works must be begun.

For the above mentioned building and transfers, the immediate availability of the following sums is necessary:-

i) Thomas steel-works MAXHUETTE - 5 Million DM.

ii) The rebuilding of the Thomas steel-works mentioned in para.1 necessitates the temporary functioning of only 3 converters. This requires a reduction in the converter stoppage periods by increased base stability (BODENHALTBARKEIT). To achieve this, the delivery of special dolomite from the dolomite quarry at + CRIMMITSCHAU (?)(name illegible) is an absolute prerequisite. In order to obtain this from CRIMMITSCHAU, the following will be required: .....ca. 0.2 Mill.DM.

iii) To instal the electro-furnace removed from MAXHUETTE at HENNIGSDORF: .....ca. 0.5 Mill.DM.

Total: 5.7 Mill.DM.

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Description.	Gross Production Figures according to Economic Plan.	New Proposals.	Remarks.
Rolled steel incl. half-finished products for forging & moulding shops.	+835	+780	Results from the a/m reduction of Thomas & electro-steel.

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I request the Department of Metallurgy of the State Planning Commission, and the State Secretariats for Material supplies to determine in conjunction with the Chief Department of Metallurgy, which sorts of rolled steel are to be affected by the reductions. It will have to be borne in mind that the reduction in the Plan will affect MAXHUETTE by at least 50,000 tons, because more steel is not available from the Thomas steel-works, and because the 50X1-HUM processing (DURCHSATZ) of cold sheet metal is limited by the capacity of the reheating furnaces.

Iron ore.	630	500	Through the changes in the crude-iron Plan in relation to particular sorts, & as a consequence of the resulting alteration in the mixture of ores and fluxes at MAXHUETTE nothing like so much ore will be needed as was originally planned. Since by reason of their composition these ores can only be used for the production of Thomas crude-iron, the undermentioned reductions are unavoidable.

Description.	Gross Production figures according to Economic Plan.	New Proposals	Remarks.
Limestone with iron content.	300	220	A corresponding reduced consumption of limestone with iron content follows from the proposed increased production of foundry iron, and the reduction of Thomas iron.

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The above mentioned extensive effects on the whole economy can be avoided to a considerable extent if the Ministry for Machine Construction receives instructions to produce synthetic crude iron in the pig-iron and Bessemer foundries, the furnace capacities of which have by no means been fully exploited. The technical practicability of this has been affirmed in a conversation with Professor UHLITZSCH of the EISENFORSCHUNGSINSTITUT HENNIGSDORF.

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GERMANY (Russian Zone)

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ECONOMIC

Rolling Mill Capacity at the KUPFER- und MESSINGWERKE, HETTSTEDT (5.3.51)

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With reference to the possibility of rolling thick sheet metal of large sizes at the Copper and Brass Works (KUPFER- und MESSINGWERKE), the following information applies:-

The performance of the rolling mill motors at the Copper and Brass Works is 1200 kw. The bars are rolled in 70 operations. Standardised sheets can be delivered with a breadth of up to 2 m., as the width of the furnace is 2300 mm.

It is impossible to accept sheets size 4500 X 18 - 26 mm X 2800 - 3200 mm because, when the sheets are straightened out (AUSRICHTEN) on the rolling mill, the diagonal of sheets of the a/m size is broader than the space between the frames of the rolling mill and does not permit the sheets to be fed into the mill from corner to corner, which is necessary when receiving sheets of large size. When making contracts, plants of the Department AMO should bear in mind that the Copper and Brass Works can roll steel sheets of the following sizes:-

From bars of 1700 kg. weight

4500 X 18 X 1850 mm
4500 X 20 X 1650 mm
4500 X 22 X 1500 mm
4500 X 24 X 1400 mm
4500 X 26 X 1280 mm
3200 X 18 X 2600 mm
3200 X 20 X 2350 mm
3200 X 22 X 2100 mm
3200 X 24 X 1950 mm
3200 X 26 X 1800 mm
2800 X 18 X 2950 mm
2800 X 20 X 2700 mm
2800 X 22 X 2400 mm
2800 X 24 X 2200 mm
2800 X 26 X 2050 mm

From bars of 2.5 tons weight

4500 X 22 X 2240 mm
4500 X 24 X 2100 mm
4500 X 26 X 1900 mm
3200 X 22 X 3200 mm
3200 X 24 X 2900 mm
3200 X 26 X 2700 mm
2800 X 22 X 3700 mm
2800 X 24 X 3400 mm
2800 X 26 X 3100 mm

From bars of 3.5 tons weight

4500 X 26 X 2650 mm
3200 X 26 X 3800 mm
2800 X 26 X 4300 mm

50X1-HUM

50X1-HUM